

**SECRET**

## GRAPHIC DATA ANALYSIS AND TRANSMISSION SYSTEM

## ACTION COMPONENT:

An/ORD

## USER COMPONENTS:

DD/P, DD/S&amp;T, DD/I/NPIC

## OBJECTIVES:

It is the objective of this project to provide an integrated system for the rapid analysis of raw graphic intelligence data such as facial photographs, handwriting samples, aerial photography, etc., together with subsequent transmission of the analyzed data to user components as appropriate. Such a system, for example, can be addressed to the personal identification problem, i.e., the rapid comparison of a given facial photograph or handwriting sample with a large library of similar material. The ultimate system will be amenable to the scanning of high resolution aerial photographs and subsequent transmission to an intelligence analyst at a remote location. A production version of such a system could then be installed between NPIC and headquarters analysts.

## DESCRIPTION:

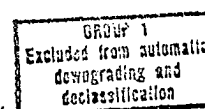
Work on an integrated graphics processing system has been proceeding both in the Intelligence Processing Research and Development facility (IPRD) and under external contract. Internal effort is focused on a computer-controlled scanner with high resolution capability. Linkage of this system with a video storage and retrieval subsystem is expected early in FY69. Initial effort in response to a DD/P/TSD requirement is being directed to the semi-automatic extraction of handwriting parameters for subsequent graphological analysis. Such a system will effect a substantial reduction in manpower presently devoted to such efforts. Under external contract a reduction in file search time of 100:1 has been achieved in the comparison of a given facial photograph with a library of similar photographs. Work is continuing toward a search time reduction of 4000:1.

## CHRONOLOGY:

Initiated: FY67

Operational: FY68

Operational Evaluation: FY69

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